

P1409 CUSTOM POWER TASK FORCE

IEEE 15.06.05.01

Meeting Minutes - Executive Summary

**IEEE PES Winter 1998 Meeting, Tampa, Florida
Tuesday, February 3, 1998, 1:00 to 3:00 PM
Hyatt Regency Westshore Hotel, Sandhill Crane Room**

The Custom Power Task Force met during the IEEE PES Winter 1998 Meeting in Tampa, Florida. Dan Sabin of Electrotek Concepts, Inc. chaired the meeting. A total of 49 people attended the meeting. Currently, the task force database lists 76 members, 16 correspondence members, and 95 guests.

Chair's Report: At the December meeting, IEEE NesCom disapproved the new version of the P1409 PAR. NesCom specifically asked for one of two things: (1) replace the word "quality" with a quantifiable and IEEE defined notion, or (2) refer in the text to another standard which specifies the term quality and how it is measured. To resolve the negative votes, the chair of P1409 has revised the PAR, adding the following text to the text of the its scope: "The proposed document will address power assessment techniques as specified by IEEE Std. 1250-1995, which defines power quality terms and phenomena, and IEEE Std. 1159-1995, which provides a recommended practice for measuring power quality."

Special Publication: The P1409 chair feels that there is sufficient material available to develop an IEEE Special Publication that will introduce and define the emerging technology of custom power. It will address devices and circuit configurations of power electronic equipment used in utility power distribution systems rated 1 kV through 38 kV. Topics for the special publication include definitions, general needs, configurations and their objectives, input and output requirements, laboratory and field performance measurements, case studies, engineering issues, and bibliographical information. The P1409 Task Force should establish a liaison relationship with the CIGRE Custom Power Working Group, which is working on a state of the art paper on custom power.

Update on the Custom Power Technology Development List: The latest version of the Custom Power Technology Development now lists the activities of fifteen different utility systems. It lists utility applications of five custom power devices, including the static circuit breaker, static transfer switch, static series device, static shunt device, and static var compensator.

Special Technical Sessions: The P1409 task force organized two panel sessions for the Tampa meeting. The first was entitled *Application of Static Transfer Switches for Enhanced Power Quality* and was attended by seventy people. The second was entitled

Application of Static Voltage Conditioning Devices for Enhanced Power Quality and was attended by over one hundred people.

Appointment of Secretary: Stephen Middlekauff of Duke Power has been appointed as the secretary of the P1409 task force.

Panel Session at Summer Power Meeting: Based on the success of the two custom power panel sessions held at the Tampa meeting, the IEEE Transmission and Distribution Committee asked P1409 to organize a similar panel session for the next meeting of the Power Engineering Society in San Diego.

Next Meeting: The next meeting of the Custom Power Task Force will be at the IEEE PES Summer Meeting in San Diego, California. The task force should meet on Tuesday, July 14, 1998.

Action Items: (1) Resubmit the P1409 PAR with references to IEEE Std. 1250-1995 and IEEE Std. 1159-1995; (2) Begin work on IEEE Special Publication with same scope and goals as P1409 document; (3) File letter of intent with IEEE on intent to publish special document; (4) Organize a panel session for the San Diego meeting of the IEEE PES.

Executive Summary of Minutes submitted on March 9, 1998 by

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